Little Bonne Femme Creek (1003) Use Attainability Analysis



Boone County Regional Sewer District 1314 North 7th Street Columbia, MO 65201-3902

Prepared by
Barr Engineering Company
July 2005

Little Bonne Femme Creek (1003)

Use Attainability Analysis

Boone County Regional Sewer District 1314 North 7th Street Columbia, MO 65201-3902

July 2005



Barr Engineering Company 3236 Emerald Lane Jefferson City, MO 65109 Phone: (573) 636-5331 Fax: (573) 636-5323

JUL 1 3 2005

Field Data Sheets for Recreational Use Stream Surveys

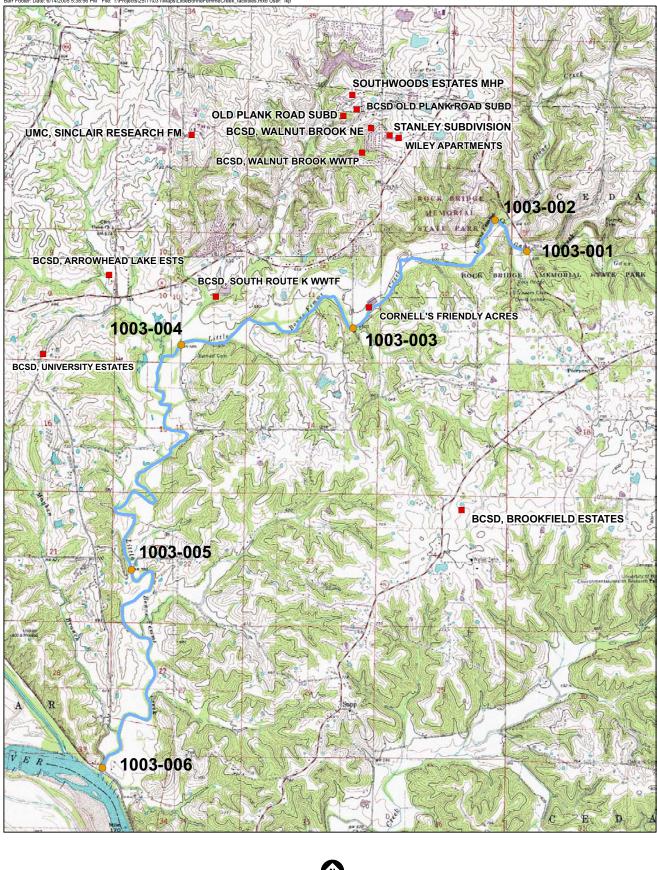
WATER PROTECTION PROGRAM

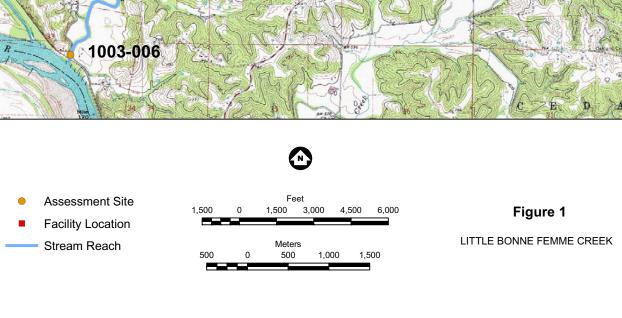
Data Sheet A - Water Body Identification

Water Body Name (from USGS 7.5' q	
8-digit HUC: 10300102	
Missouri WBID #: 1003	
County: Boone	
Upstream Legal Description: Little Bo R13W)	onne Femme Creek at Highway 163 (in SE 1/4 Section 1, T47N,
Downstream Legal Description: Mout	th (located in Section 34, T47N, R13W)
Upstream Coordinates: UTM (Z15N)	558396E; 4303305N
Downstream Coordinates: UTM (Z15	N) 553387E; 4296530N
Discharger Facility Name(s): BCSD, Walnut Brook NE, Permit # M BCSD, University Estates, Permit # M Old Plank Road Subdivision, Permit # BCSD, Old Plank Road Subdivision, F BCSD, South Route K WWTF, Permit Cornell's Friendly Acres, Permit # MC BCSD, Walnut Brook WWTP, Permit Stanley Subdivision, Permit # MO0106 Wiley Apartments, Permit # MO0106 Southwoods Estates MHP, Permit # M BCSD, Arrowhead Lake Estates, Perm UMC, Sinclair Research FM, Permit # M BCSD, Brookfield Estates, Permit # M	MO0083526 MO0084816 Permit # MO0084824 t # MO0087173 00088200 # MO0088340 5996 011 100113484 hit # MO0117773 # MO0123706
Discharger Permit Number(s): See Ab	oove.
Number of Sites Evaluated: 5	
Name of Surveyor and Telephone Nun	nber: Alan Fandrey (573-638-5013)
Organization: Barr Engineering Comp	pany
Position: Civil Engineer	

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed:	Clan A	any	 Date: _	6-29-05	
	•				





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 1003-	-001		Site Location Description: Little Bonne Femme Creek at Highway 163 in NW 1/4 Section 7, T47N, R12W - Boone County				
	Site GPS Coordinates: 5	58421E; 4303305N	I	163 in NW 1/4	1 Se	ection 7, T47N, R12W - Bo	oone County	
	Date & Time: 6/27/05 - 5	p.m.		Facility Name: See Table 2				
	Personnel: Alan J. Fandr	ey		Permit Numbe	Permit Number: See Table 2			
	Current Weather Condition	ons: Clear - 90s		Weather Cond	litio	ns for Past 7 days: Last ra	in on June 13	
	Photo Ids: Upstream: 10	03-001US Dow	nstream: 100	03-001DS Oth	ner:			
Us	es Observed*:	<u> </u>	<u> </u>				Γ	
	Swimming	☐ Skin diving		UBA diving		☐ Tubing	☐ Water skiing	
	☐ Wind surfing	☐ Kayaking	□ Во	ating		☐ Wading	Rafting	
ĺ	Hunting	☐ Trapping	☐ Fis	hing		None of the above	Other:	
	rrounding Condition ns of interest.)	S*: (Mark all that p	promote or im	pede recreationa	l us	es. Attach photos of evider	nce or unusual	
	☐ City/county parks	☐ Playgrounds	☐ MDC co	nservation lands		Urban areas	☐ Campgrounds	
	☐ Boating accesses		☐ National	forests		■ Nature trails	☐ Stairs/walkway	
	☐ No trespass sign	☐ Fence	☐ Steep slo	pes		Other:		
Ev	idence of Human Use	2 * :						
	⊠ Roads	☐ Foot paths/prin	nts 🗆 🗅 D	Dock/platform		RV / ATV Tracks		
	☐ Rope swings	☐ Camping Sites	☐ F	ire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle	
	Other:							

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID #<u>1003-001</u>:

Upstream Vi	ith (ft):		Len	gth (ft):		Avg. Depth	(ft)·	Mon David (C	`
☐ Run Wi	ith (ft):			gth (ft):		Avg. Depth		Max. Depth (ft	
⊠ Pool Wi	lth (ft):	25-40		gth (ft): 15			<u> </u>	Max. Depth (ft	<u></u> _
	sent?	⊠ Yes	□ No			Avg. Depth		Max. Depth (ft): 2.0
24.10.11		Z 1cs				Estimated (f	$t^3/sec): < 0.$	5	
Downstream	View 3	Physica	l Dimen	sions:					
	lth (ft):			gth (ft):		Avg. Depth	(ft):	Max. Depth (ft)	١.
☐ Run Wie	th (ft):		Leng	gth (ft):		Avg. Depth			
⊠ Pool Wie	th (ft):	25-40	Leng	gth (ft): 100		Avg. Depth		Max. Depth (ft)	
⊠ Flow Pre	ent?	X Yes	□No	3 (-), 10.			t ³ /sec): see a	Max. Depth (ft)): 2.3
						esumated (1	(/sec): see	above	
bstrate*: (The	se value	es should	add up to	100%.)					
			% Gravel		% Sand	T	% Silt	100% Mud/Clay	<i>M</i> P :
% Cot	ble			L					% Bedroo
	ble			getation or a		h at the asse			% Bedroc
% Cot	on*: (note amo	unt of veg	·		h at the asse			% Bedroo
% Cot (uatic Vegetat ater Characte Odor:	on*: (note amo *: (Mark Sewage	unt of veg	oply.) ⁄usky	lgal growt	h at the asse			% Bedroc
% Cot (uatic Vegetat ater Characte Odor: Color:	on*: (note amo *: (Mark Sewage Clear	all that ap	oply.) Musky Green	lgal growt	nical	ssment site)		
% Cot uatic Vegetat ater Characte Odor: Color: Bottom Deposit:	on*: (*: (Mark Sewage Clear Sludge	all that ap	oply.) Musky Green Golids	lgal growt	mical , sediments	ssment site)	☐ Other:	
% Cot (uatic Vegetat Ater Characte Odor: Color: Bottom Deposit: Surface Deposit:	on*: (*: (Mark Sewage Clear Sludge Oil	all that ap	oply.) Musky Green Golids Journ	☐ Cher ☐ Gray ☐ Fine ☑ Foan	mical sediments	Soment site) None Milky None None	☐ Other: ☐ Other: brown ☐ Other: ☐ Other:	n
% Cot uatic Vegetat nter Characte Odor: Color: Bottom Deposit: Surface Deposit: mments: Pleas is information is a prehensive under sion on the recrea	istics: istics: attace e attace of to be tanding ion use l, here and ac	*: (Mark Sewage Clear Sludge Oil ch additi	all that ap	oply.) Musky Green Golids Coum mments (i	Cher Cher Fine Foan	sediments informati l use designation information to need further wledge, the	None None None None nation but rather analysis or	☐ Other: ☐ Other: brown	n m. a on this UAA



Photo ID 1003-001US: Upstream (Little Bonne Femme Creek)



Photo ID 1003-001DS: Downstream (Little Bonne Femme Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 1003-	002			Site Location Description: Little Bonne Femme Creek at mouth of Gans Creek in SE 1/4 Section 1, T47N, R13W; BID 12A - Boone				
	Site GPS Coordinates: 5	58306E; 4303488N	1	County	k in SE	1/4 Section 1, 14/N, R13	W; BID 12A - Boone		
	Date & Time: 6/27/05 - 4	:45 p.m.		Facility Na	Facility Name: See Table 2				
	Personnel: Alan J. Fandr	ey		Permit Nur	nber: \$	See Table 2			
	Current Weather Condition	ons: Clear - 90s		Weather C	onditic	ons for Past 7 days: Last ra	in on June 13		
	Photo Ids: Upstream: 10	03-001US Dow	nstream:	1003-002DS	Other:	1003-002O			
ı		1							
Us	es Observed*:		1				T		
	☐ Swimming	☐ Skin diving		SCUBA diving		☐ Tubing	☐ Water skiing		
	☐ Wind surfing	☐ Kayaking		Boating		☐ Wading	Rafting		
	Hunting	☐ Trapping		Fishing		None of the above	Other:		
	rrounding Condition	s*: (Mark all that p	promote or	· impede recreation	onal us	es. Attach photos of evider	nce or unusual		
	☐ City/county parks	Playgrounds	☐ MDC	conservation la	nds	Urban areas	☐ Campgrounds		
	☐ Boating accesses	State parks ■	☐ Natio	nal forests		☐ Nature trails	☐ Stairs/walkway		
	☐ No trespass sign		☐ Steep	slopes		☑ Other: Pipeline			
Εv	idence of Human Use	2*:							
	Roads	☐ Foot paths/prin	nts	Dock/platform	Dock/platform		RV / ATV Tracks		
	☐ Rope swings	☐ Camping Sites		Fire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle		
	Other:								

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Data Sheet B - Site Characterization

Page Two – WBID #<u>1003-002</u>:

eam Morpl Upstream V		al Dimension	s:					
	Width (ft):	Lengt		Avg. Depth (f	t):	Ma	ax. Depth	(ft):
Run V	Width (ft):	Lengt	h (ft):	Avg. Depth (f	ît):	Ma	ax. Depth	(ft):
⊠ Pool V	Width (ft): 10-2	20 Lengt	h (ft): 100	Avg. Depth (f	ft): 2.0	Ma	ax. Depth	(ft): 3.2
∏ Flow I	Present?	res No		Estimated (ft ³	/sec): < 1			a 10 1000 1111 as also
Downstrea	m View Phys	sical Dimens	ions:					
	Width (ft): 4-6		th (ft): 15	Avg. Depth (1	ft): .2	Ma	ax. Depth	(ft): 0.3
☐ Run V	Width (ft):	Leng	h (ft):	Avg. Depth (1	ft):	Ma	ax. Depth	(ft):
⊠ Pool V	Width (ft): 15-1	15 Leng	th (ft): 70	Avg. Depth (ft): 0.9	M	ax. Depth	(ft): 1.2
⊠ Flow I	Present?	res □ No		Estimated (ft ³	³ /sec): < 1			
Odor:	cteristics*: (Mark all that ap	ply.) Iusky [Chemical	None None		Other:	,
Color:	 ⊠ Cle		reen [Gray	Milky	у 🗍	Other:	
Bottom Dep	osit: Slu	ige 🔲 S	olids [Fine sediments	None None		Other:	
Surface Dep	osit: 🛛 Oil	⊠ s	cum [∏ Foam	☐ None		Other:	
his information inprehensive usision on the re	n is not to be us nderstanding of ecreation use ar	ed solely for re water conditionalysis but may	moval of a recr ns. Consequen point to conditi	eational use design tly, this information	nation but in is not in er analysis	rather is to pr tended to dire s or that effec	rovide a m ectly influent et another	ore ence a use.
atasheet is t	rue and acci	irate.		y knowledge, t	hat all ii	nformation	n report	ed on this UAA
	///					٦ -1	1 00.	
gned:	War ?	Hamby	· ·	Date: Position	Ju	ne 30	,200	5



Photo ID 1003-002US: Upstream (Little Bonne Femme Creek)



Photo ID 1003-002DS: Downstream (Little Bonne Femme Creek)



Photo ID 1003-002O: Further Downstream (Little Bonne Femme Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 1003		Site Location Description: Little Bonne Femme Creek at bridge in SE 1/4 Section 11, T47N, R13W; BID 33 - Boone County				1		
	Site GPS Coordinates: 5	556443E; 4302024	N	2	SE 1/4 Sec	ction 11	, 14/N, R13W; BID 33 - I	Boone County	
	Date & Time: 5/27/05 - 3	3:15 p.m.		F	Facility Na	ıme: S	ee Table 2		
	Personnel: Tim J. Fandre	ey		F	Permit Number: See Table 2				
	Current Weather Condition	1	Weather C	onditio	ns for Past 7 days: Last ra	ain on May 22			
	Photo Ids: Upstream: 10	n: 1003-0	003DS	Other:					
Tic	es Observed*:								
US	Swimming	☐ Skin diving	I	SCUB	A diving		☐ Tubing	☐ Water skiing	
	☐ Wind surfing	☐ Kayaking	<u> </u>	Boatin			☐ Wading	Rafting	
	Hunting	☐ Trapping		☐ Fishin			None of the above	Other:	
						nhoto-d	ocumentation of evidence		etc.)
	Surrounding Conditions*: (Mark all that promote or interest.)				le recreati	onal us	es. Attach photos of evide	nce or unusual	
	☐ City/county parks	☐ Playgrounds		DC conse	rvation la	nds	☐ Urban areas	☐ Campgrounds	
	☐ Boating accesses	☐ State parks	☐ Nat	tional for	ests		■ Nature trails	☐ Stairs/walkway	
	 ☑ No trespass sign ☑ Fence ☑ Steep ste				S		☑ Other: Rock Bridge State Park is about 1/4 mile upstream.		
Ev	idence of Human Us								
	⊠ Roads	☐ Foot paths/pri	ints	☐ Docl	k/platforn	1	☐ Livestock Watering	□ RV / ATV Track	ζS
	☐ Rope swings	☐ Camping Site	S	☐ Fire	pit/ring		☐ NPDES Discharge	☐ Fishing Tackle	
	Other:								
Ev	ridence of Human Use ☑ Roads ☐ Rope swings	☐ Foot paths/pri	ints	☐ Doc1	k/platforn	1	☐ Livestock Watering		cs

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Data Sheet B - Site Characterization

Page Two – WBID #<u>1003-003</u>:

	w Physical Dim	ensions:				
Riffle Wid	th (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
Run Wid	lth (ft): 5.0	Length (ft): 20	Avg. Depth (ft): 0.6	Max. Depth (ft): 0.7	
Pool Wid	Ith (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
☐ Flow Pres	sent? 🛛 Yes 🛭] No	Estimated (ft ³ /	sec): about 1		
Downstream	View Physical I	Dimensions:				
	th (ft):	Length (ft):	Avg. Depth (f	t):	Max. Depth (ft):	
	ith (ft):	Length (ft):	Avg. Depth (f	t):	Max. Depth (ft):	
	dth (ft): 35	Length (ft): 100	Avg. Depth (f	t): 0.8	Max. Depth (ft): 1.2	
	sent? Yes [¬No	Estimated (ft ³	/sec): about 1		
90% Col		Gravel % S nt of vegetation or algal g	and rowth at the asses	% Silt	% Mud/Clay	% Bedrock
Algae on surfac	ce; growing on rock	S.				
	eristics*: (Mark a	ill that apply.)	Chemical	None Non	Other:	
	I LSEWAGE	IVIUSKy			i i Ouici.	
Odor:		Green				
Color:	☐ Clear	Green	Gray	Milky	Other:	
		☐ Green ☐ ☐ Solids ☐ ☐ Scum ☐			Other:	
Color: Bottom Deposi Surface Deposi Comments: Plea	☐ Clear it: ☐ Sludge it: ☐ Oil ase attach additi s not to be used soluterstanding of water reation use analysis	Solids Scum Scum onal comments (included of a recreation conditions). Consequent but may point to condition	Gray Fine sediments Foam Iding informational use design Ity, this informations that need furth	Milky None None non from inter nation but rather n is not intended er analysis or the	Other: Other: Other: Other: views) to this form. is to provide a more to directly influence a at effect another use.	chis UAA
Color: Bottom Deposi Surface Deposi comments: Plea This information is comprehensive und ecision on the recruitments of the undersign	☐ Clear it: ☐ Sludge it: ☐ Oil ase attach additi s not to be used solderstanding of water reation use analysis ned, hereby affi	Solids Scum Scum Onal comments (includely for removal of a recression conditions). Consequent but may point to condition from to the best of my	Gray Fine sediments Foam Iding informational use design Ity, this informations that need furth	Milky None None non from inter nation but rather n is not intended er analysis or the	Other: Other: Other: Other: views) to this form. is to provide a more to directly influence a at effect another use.	his UAA
Color: Bottom Deposi Surface Deposi Comments: Plea This information is comprehensive und ecision on the recruit the undersignatasheet is true	☐ Clear it: ☐ Sludge it: ☐ Oil ase attach additi s not to be used soluterstanding of water reation use analysis	Solids Scum Scum Onal comments (included for removal of a recreation condition). Consequent but may point to condition from to the best of my	Fine sediments Foam Iding informational use designers, this informations that need further knowledge, to the sediments of th	Milky None None non from intermation but rather is not intended er analysis or the hat all inform	Other: Other: Other: Other: views) to this form. is to provide a more to directly influence a at effect another use.	



Photo ID 1003-003US: Upstream (Little Bonne Femme Creek)



Photo ID 1003-003DS: Downstream (Little Bonne Femme Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 1003	-004		Site Location Description: Little Bonne Femme Creek at bridge in SE 1/4 Section 10, T47N, R13W; BID 32 - Boone County				
Site GPS Coordinates: 5	54342E; 4301829N		SE 1/4 Section	on 10), 14/N, R13W; BID 32 - I	Boone County	
Date & Time: 5/27/05 - 2	2:50 p.m.		Facility Name: See Table 2				
Personnel: Tim J. Fandre	ey		Permit Numb	oer: S	See Table 2		
Current Weather Conditi	ons: Cloudy - 70s		Weather Con	nditio	ons for Past 7 days: Last ra	in on May 22	
Photo Ids: Upstream: 10	003-004US Dow	vnstream: 100	03-004DS O	ther:	1003-004O		
Jses Observed*:	•		<u>.</u>				
Swimming	☐ Skin diving	□ SCI	UBA diving		☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	□ Воа	ating		□ Wading	Rafting	
Hunting	☐ Trapping	☐ Fisl	hing		None of the above	Other:	
Describe: (include numb							
Surrounding Condition	s*: (Mark all that p	promote or imp	pede recreation	nal us	es. Attach photos of evide	nce or unusual	
Surrounding Condition tems of interest.)	`	1			•	T	
Surrounding Condition tems of interest.)	□ Playgrounds	☐ MDC con	nservation land		☐ Urban areas	☐ Campgrounds	
Surrounding Condition tems of interest.) City/county parks Boating accesses	☐ Playgrounds ☐ State parks	☐ MDC con☐ National	nservation land		☐ Urban areas ☐ Nature trails	T	
Surrounding Condition tems of interest.) City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☑ Fence	☐ MDC con	nservation land		☐ Urban areas	☐ Campgrounds	
Surrounding Condition tems of interest.) City/county parks Boating accesses	☐ Playgrounds ☐ State parks ☑ Fence	☐ MDC con ☐ National ☐ Steep slo	nservation land		☐ Urban areas ☐ Nature trails	☐ Campgrounds	
Surrounding Condition tems of interest.) City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC con ☐ National ☐ Steep slo	nservation land forests pes		☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds ☐ Stairs/walkway	

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two – WBID #1003-004:

Stream Morj Upstream	phology: View Phys	ical Dime	nsions:							
Riffle	Width (ft):		Length (ft):	ŀ	vg. Depth (f	ft):		Ma	x. Depth ((ft):
Run	Width (ft):		Length (ft):	A	Avg. Depth (f	ft):		Ma	x. Depth	(ft):
⊠ Pool	Width (ft): 1	.5	Length (ft): 50	I	Avg. Depth (f	ft): ().9	Ma	ix. Depth	(ft): 1.5
⊠ Flow	Present?	Yes 🗌	No	J	Estimated (ft ³	/sec)): about 1			·
Downstre	am View Pl	hysical Di	mensions:							
Riffle	Width (ft):		Length (ft):	I	Avg. Depth (1	ft):		Ma	ax. Depth	(ft):
Run	Width (ft):		Length (ft):	4	Avg. Depth (1	ft):		Ma	ax. Depth	(ft):
⊠ Pool	Width (ft): 1	.7	Length (ft): 10	1	Avg. Depth (ft):]	1.0	Ma	ax. Depth	(ft): 1.8
⊠ Flow	Present?	Yes 🔲	No]	Estimated (ft ³	3/sec): see abo	ve		
Substrate*:	(These values 6 Cobble	should add 10% Gr		% Sand		%	ő Silt	80% M	Iud/Clay	10% Bedrock
Aquatic Veg	getation*: (n	ote amount	of vegetation or a	lgal growt	h at the asses	ssme	ent site)			
Algae abov	ve dam.					· · · · · · · · · · · · · · · · · · ·				
Water Char	acteristics*	: (Mark all 1	hat apply.)							
Odor:		Sewage	Musky	Che	mical	\boxtimes	None		Other:	
Color:		Clear	Green	☐ Gra	У		Milky	\boxtimes	Other: bi	rown
Bottom De	<u> </u>	Sludge	Solids		sediments		None		Other:	
Surface De	eposit: [] (Oil	⊠ Scum	⊠ Foa	m	Ш	None		Other: al	gae
*This informati comprehensive decision on the I, the under	on is not to be understanding recreation use signed, here	e used solely g of water co analysis but	for removal of a nditions. Consequent may point to contact to the best of	recreation quently, the	al use design s information at need furth	atior n is r er an	n but rathe not intende nalysis or t	er is to pr ed to dire that effec	ovide a meetly influent	ore ence a
datasheet is	true and ac	ccurate.								
Signed:	alen	fau,	2		Date:		6-	16-0	25	
Organization	1:	BE			Date: Position	n:	E	in 6		



Photo ID 1003-004US: Upstream (Little Bonne Femme)



Photo ID 1003-004DS: Downstream (Little Bonne Femme)



Photo ID 1003-004O: Dam (Little Bonne Femme)

Data Sheet B - Site Characterization

Page Two - WBID #<u>1003-005</u>:

Stream Morj Upstream		ysical D	imensions:								
Riffle	Width (ft)		Length (ft):		Avg. Depth	(ft):	·	M	lax. Depth (f	t):	
Run	Width (ft)		Length (ft):		Avg. Depth	(ft):			lax. Depth (f		
⊠ Pool	Width (ft):	30-50	Length (ft):	200	Avg. Depth	(ft):	2.0	M	Iax. Depth (f	t): 3.0	n
⊠ Flow	Present?	⊠ Yes	□ No		Estimated (f	t³/se	ec): Less t				
Downstrea	am View	Physica	l Dimensions:					ı			
Riffle	Width (ft):		Length (ft):		Avg. Depth	(ft):		M	Iax. Depth (f	t):	
Run	Width (ft):		Length (ft):		Avg. Depth	(ft):		M	lax. Depth (f	t):	
⊠ Pool	Width (ft):	35-50	Length (ft):	200	Avg. Depth	(ft):	1.0		lax. Depth (f		
⊠ Flow	Present?	⊠ Yes	□ No		Estimated (f	t³/se	ec): see at		<u> </u>		
Substrate*:	(These valu	ies should	add up to 100%.)	ı					,		
	Cobble		% Gravel		Sand		% Silt	100% I	Mud/Clay		% Bedrock
Water Chara	acteristic	s*: (Marl	k all that apply.)		Chemical		None		Other:		
Color:] Clear	⊠ Green		Gray		Milky		Other:		
Bottom De		Sludge			Fine sediments		None	\boxtimes	Other: deb	ris	
Surface De	posit: _	Oil	Scum		Foam	\geq	None		Other:		
*This information comprehensive indecision on the inferior on	on is not to understandi recreation u	be used song of waters analysis	tional comment olely for removal of er conditions. Consist but may point to firm to the bes	of a recreation of a recreation	ational use design y, this informations that need furth	nation is	on but rath not intend analysis or	er is to pa ded to dir that effe	rovide a more ectly influence ct another use	e ce a e.	nis UAA
					Date:	(6-16.	-0)	'.		_
Organization:			BFC		Positio	n: _	Ens	•			-

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 1003-	.005			Site Location Description: Little Bonne Femme Creek at bridge in SW 1/4 Section 22, T47N, R13W; BID 34 - Boone County				
	Site GPS Coordinates: 5	53762E; 4299299N	1	SW 1/4 Se	ction 2	2, T47N, R13W; BID 34 -	Boone County		
	Date & Time: 5/28/05 - 1	1:20 a.m.		Facility Na	Facility Name: See Table 2				
	Personnel: Tim J. Fandre	y / Alan J. Fandrey		Permit Nur	nber: \$	See Table 2			
	Current Weather Condition	ons: Clear - 70s		Weather C	onditio	ons for Past 7 days: Last ra	in on May 22		
	Photo Ids: Upstream: 10	03-005US Dow	nstream	: 1003-005DS	Other:				
,		<u> </u>							
Us	es Observed*:								
	☐ Swimming	☐ Skin diving		SCUBA diving		☐ Tubing	☐ Water skiing		
	☐ Wind surfing	☐ Kayaking		Boating		□ Wading	Rafting		
	Hunting	☐ Trapping		Fishing		None of the above	Other:		
	Describe. (include numbe	or marviduais rec	reating,	frequency of use, p	/110t0-c	locumentation of evidence	or recreational ases, etc.)		
J									
Su	rrounding Condition	s*: (Mark all that p	romote (or impede recreation	onal us	es. Attach photos of evider	nce or unusual		
ter	ns of interest.)	•		-		•			
	☐ City/county parks	Playgrounds	☐ MD	C conservation la	nds	☐ Urban areas	☐ Campgrounds		
	☐ Boating accesses	☐ State parks	☐ Nat	ional forests		☐ Nature trails	☐ Stairs/walkway		
	☐ No trespass sign	☐ Fence	⊠ Stee	ep slopes		Other:			
_									
Ľν	idence of Human Use								
	Roads	Foot paths/prin		Dock/platform	l	Livestock Watering	RV / ATV Tracks		
	☐ Rope swings	☐ Camping Sites		☐ Fire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle		
	Other:								

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.



Photo ID 1003-005US: Upstream (Little Bonne Femme)



Photo ID 1003-005DS: Downstream (Little Bonne Femme)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 1003		Site Location Description: Little Bonne Femme Creek at bridge near mouth in Section 34, T47N, R13W						
	Site GPS Coordinates: 5								
	Date & Time: 5/28/05 - 1		Facility Name: See Table 2						
	Personnel: Tim J. Fandre	ey / Alan J. Fandrey	7		Permit Nu	nber: \$	See Table 2		
	Current Weather Condition		Weather Conditions for Past 7 days: Last rain on May 22						
	Photo Ids: Upstream: 10	n: 1003	003-006DS Other:						
TIO	es Observed*:								
US	Swimming	☐ Skin diving			IRA divina		☐ Tubing	☐ Water skiing	
	☐ Wind surfing ☐ Kayaking			☐ SCUBA diving ☐ Boating			☐ Wading	Rafting	
		☐ Kayakılıg ☐ Trapping		Fish			None of the above	Other:	
	Hunting					.141	locumentation of evidence		
	rrounding Condition	IS*: (Mark all that	promote	e or imp	ede recreati	onal us	es. Attach photos of evider	nce or unusual	
	☐ City/county parks	☐ Playgrounds ☐ MI		IDC conservation lands		nds	☐ Urban areas	⊠ Campgrounds	
	☐ Boating accesses		☐ National		forests		☐ Nature trails	☐ Stairs/walkway	
	☐ No trespass sign	☐ Fence	⊠ Ste	eep slop	es		☑ Other: Katy Trail and one campsite adjacent		
Ev	idence of Human Us	e*:							
	⊠ Roads	☑ Roads			ock/platform		☐ Livestock Watering	RV / ATV Tracks	
	☐ Rope swings	☐ Camping Sites		☐ Fire pit/ring			☐ NPDES Discharge	☐ Fishing Tackle	
	Other:								

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID #<u>1003-006</u>:

Riffle	Width (ft):		Length (ft):		Avg. Depth ((ft):		Max.	Depth (ft):	
Run	Width (ft):		Length (ft):		Avg. Depth (· · · · · ·			Depth (ft):	
Nool Pool	Width (ft):	75	Length (ft): 60	00	Avg. Depth (.0		Depth (ft):	7.0
⊠ Flow	Present?	⊠ Yes	□No		Estimated (ft Backwater fr	³ /sec):			Dopin (1t).	7.0
Downstre	am View	Physica	l Dimensions:							
Riffle	Width (ft):		Length (ft):		Avg. Depth ((ft):		Max.	Depth (ft):	
Run	Width (ft):		Length (ft):		Avg. Depth (Depth (ft):	
⊠ Pool	Width (ft):	95	Length (ft): 20	00	Avg. Depth (0		Depth (ft):	7.0
Flow	Present?	⊠ Yes	□ No		Estimated (ft above				Deput (It).	7.0
	6 Cobble		add up to 100%.) % Gravel	% Sand	d	0%	Silt	100% Mud	/Clay	
			ount of vegetation or				<u> </u>	100% Mad	Clay	% Bedroo
uatic Veg	getation*:	(note amo	ount of vegetation or				<u> </u>	100% Mud	/Clay	% Bedro
uatic Veg	getation*:	(note amo		algal grow			t site)		her:	% Bedroo
uatic Veg ater Char	getation*:	(note amo	ount of vegetation or	algal grow	wth at the asse	ssmen	t site)	☐ Ot		% Bedro
uatic Veg ater Char Odor:	getation*:	(note amo	ount of vegetation or k all that apply.) Musky	algal grow	wth at the asse	ssmen	t site)	Ot ⊠ Ot	her:	
uatic Veg ater Char Odor: Color:	acteristic	(note amo	ount of vegetation or k all that apply.) Musky Green	algal grow	emical ay	ssmen	t site) Tone filky	□ Ot ⊠ Ot ⊠ Ot	her: her: brown	
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Photo ID 1003-006US: Upstream (Little Bonne Femme)



Photo ID 1003-006DS: Downstream (Little Bonne Femme)